

APRIL/MAY 2024

**23UBC11 — NUTRITIONAL  
BIOCHEMISTRY**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL the questions.



1. Define specific dynamic action.
2. Explain the term BMI.
3. Recall the functions of protein
4. Summarize the Importance of NPU.
5. What are Junk foods?
6. Explain the term balanced diet.
7. What are starch modifiers?
8. Outline the various stabilizing agents.
9. Show the importance of probiotics.
10. Summarize the importance of functional foods.

**SECTION B — (5 × 5 = 25 marks)**

Answer ALL the questions.

11. (a) Identify the importance of energy yielding foods.

Or

(b) Examine the factors affecting BMR.

12. (a) Organize the nutritional significance of proteins.

Or

(b) Analyse the types of obesity.

13. (a) Plan a dietary chart for infants.

Or

(b) Classify the food groups.

14. (a) Identify and explain the role of various food preservatives.

Or

(b) Examine the uses of artificial sweetners with example.

15. (a) Organize the benefits of anthocyanins.

Or

(b) Analyze the nutritional significance of nutraceutical.

**SECTION C — (3 × 10 = 30 marks)**

Answer any THREE questions.

16. Explain the determination of energy value of food stuffs using bomb calorimeter.

17. Deduce the causes and effects of Kwashiokar.

18. Explain the adverse effects of Junk foods.

19. Elaborate on the safety assessment of food preservatives.

20. Discuss the structure and biological functions of carotenoids.

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